

# OUTLOOK

February 15, 1988

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## Miller Unveils Plan for Agricultural Education



**O**n Feb. 5 Ray Miller, dean of the Colleges of Agriculture and Life Science, unveiled the colleges' new "Plan for Undergraduate Programs" before the Educational Policy Committee of the Board of Regents.

The plan is designed to improve undergraduate education in agriculture and life sciences at UMCP by increasing enrollment, modernizing curricula, and using existing resources more efficiently.

"Enrollment in the College of Agriculture is declining, and enrollment in the College of Life Sciences is stagnant," Miller says. "This slow-down in enrollment is a symptom of changes in society and higher education. We must maintain and develop undergraduate programs that are responsive to these changes."

For example, very few jobs exist today in traditional production agriculture. Some components of the College of Agriculture already have modified programs to reflect changes in the marketplace. However, other components have not, and a balance must be made between traditional programs and those that prepare students for newly emerging careers.

Along this same line, Miller proposes changing the name of the College of Agriculture to the College of Agriculture, Food, and Natural Resources.

Both colleges must use existing resources more efficiently and correct such current situations as courses that

## UMCP-Directed Caesarea Exhibition Will Open in March

**U**MCP scholars will help bring a glimpse of the ancient world to a national audience when an exhibition on the lost Mediterranean city of Caesarea Maritima opens at the National Museum of Natural History in Washington, D.C. March 23.

*King Herod's Dream: Caesarea on the Sea*, an exhibition developed from more than a decade of archaeological digging on land and under water at the ruins of Caesarea, will eventually travel to at least five cities in the United States and Canada. The exhibition is sponsored by UMCP, the Smithsonian Institution Traveling Exhibition Service and the National Endowment for the Humanities.

Caesarea will be showcased in two other ways the week of the opening. A Norton Press book about the exhibition will be a History Book Club and Book-of-the-Month selection, and a three-day seminar will be held at three different locations in the Washington metro area, including UMCP.

The exhibition will portray Caesarea as an instructive example of both urbanization in the ancient world and the techniques used by archaeologists, says Kenneth Holum, UMCP professor of history and project director for the exhibition. Lindley Vann, associate professor of architecture and project architect, along with Marie Spiro, associate pro-



The ancient city of Caesarea's aqueduct system is among the most visible ruins still standing. Two aqueducts were built side-by-side there, the first constructed on the first century B.C. and the second a century later.

fessor of art and mosaic expert for the project, are other UMCP scholars who have had extensive involvement in the project which has included scholars from 35 universities.

The city of Caesarea was willed into existence shortly before the birth of Christ by Herod the Great, king of Judea. In Herod's day, leaders viewed the building of cities as one of the highest expressions of their power.

ing achievement, Holum says. To enhance his political standing within the Roman Empire, Herod named the city after Roman Emperor Caesar Augustus.

Built as a Mediterranean port city in what is now Israel, Caesarea featured a man-made harbor constructed with then-advanced engineering techniques. During its 1,300-year existence, the

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draw few students; duplicate courses (five introductory genetics courses for example); limited coordination among programs; and limited use of group expertise, work experiences and internships.

By September 1990, the colleges' goals are to have at least 15 students enrolled in each undergraduate course and the curricula modernized. The College of Agriculture should have a total of 800 undergraduate majors by then and the College of Life Sciences, a total of 2,000 undergraduate majors.

The colleges already have begun implementing many of the plan's recommendations. The following is a brief summary of their actions to date:

- Both colleges have formed committees to develop core curricula and study other college programs and

curricula.

- Last semester, both colleges began student evaluation of academic advisors. Preliminary results showed that 91 percent of the students in both colleges rated their advisors as "excellent" or "good."
- A number of the academic departments are revising their curricula. Horticulture, for example, has proposed a new curriculum in landscape architecture to complement its existing curriculum in landscape design.
- The colleges for the first time recently hired a recruiter/admissions counselor and an alumni/development director. A formal mechanism also has been developed to track graduates of the colleges. This will aid their alumni relations programs and help build closer ties with industries that employ the colleges' graduates.

- To present a better image to the public, the colleges have set up regional roundtables across the state to solicit citizen input on the undergraduate programs. They have conducted a series of retreats bringing together citizens groups, private industry, government agencies, and UMCP faculty and administrators to identify common issues and needs. The colleges also are assembling an advisory council to serve the Dean and the Vice President for Agricultural Affairs.

"The College of Agriculture and the College of Life Sciences are pleased with this plan, and we are working under its guidelines to ensure excellence in our programs," Miller says. "We want to achieve our goals as soon as possible to build a strong program for the future." ■

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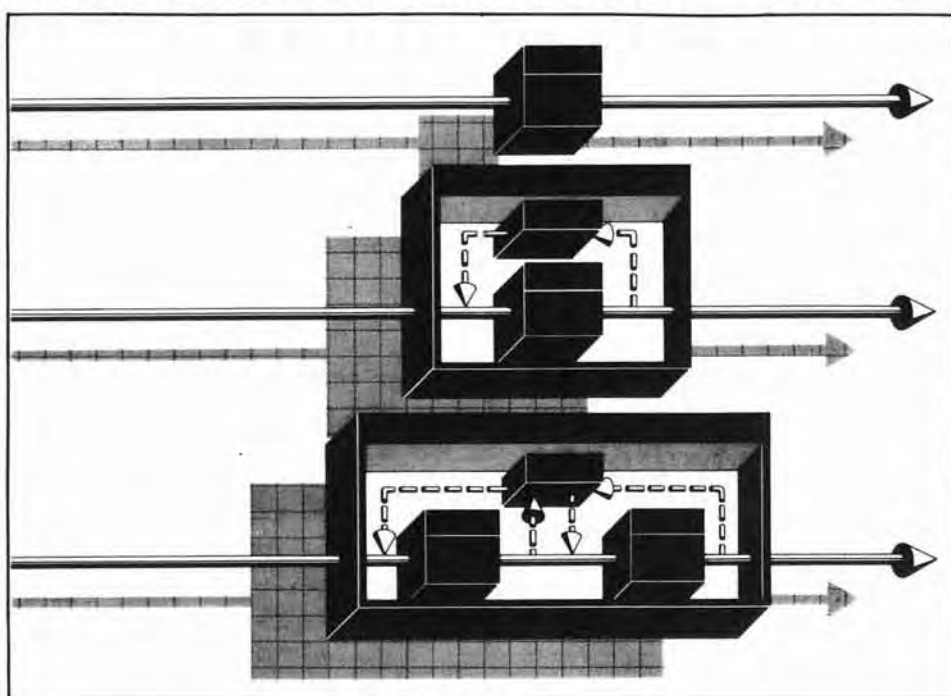
## Survey Shows Marylanders Concern for Social Issues

In a recent survey conducted by the University of Maryland Public Polling Project of 502 Maryland residents, 19 percent of those surveyed indicated that drug use/abuse is the most important problem facing the State. In addition, 11 percent of those polled said that education was the most important problem. "Surfacing for the first time this year is a small but

measurable number (2 percent) of respondents mentioning AIDS as the most important issue or problem facing the State," said Sue Dowden, director of the project. The Maryland Polling Project is a joint activity of the University's Institute for Governmental Service and the College of Behavioral and Social Sciences.

## RESEARCH UPDATES

# Research to Probe Application of Box Structures to CASE Environments



A graphic representation of the three box structures in the Box Structure Methodology.

**A**lan R. Hevner, associate professor of information systems in the College of Business and Management, has been awarded a \$16,880 grant from Index Technology Corporation's Research Incentive Program. Hevner will investigate the integration of box structure concepts into a Computer Aided Software Engineering (CASE) environment.

Hevner, along with Harlan D. Mills, director of the Information Systems Institute in Vero Beach, Florida and a former IBM Fellow at UMCP, and Richard C. Linger, senior programming manager of software engineering studies at IBM's Federal Systems Division in Bethesda, developed the Box Structure Methodology to provide a rigorous theory and set of methods for performing information systems development.

The Box Structure Methodology, according to Hevner, represents a

new approach for managing information systems development. Traditional methods of information systems analysis and design such as data flow diagrams and structure charts do not provide the level of rigor and precision needed for effective system specifications, he says.

"The Box Structure Methodology is a comprehensive but logically simple basis for the practice of information systems analysis and design," Hevner says. "The principal new idea is the use of three fundamental structures over and over to describe all system aspects of information systems' behavior. These three structures—black box, state machine, and clear box—can be studied in detail for their logical properties and interactions. The box structures are used not only to guide technical work, but to form a sound basis for managing information system development," he says. ■

—Tom Ottwell

# Keeping Tabs on Earth's Environment Via Remote Sensing Technology

Though it got off to a shaky start 20 years ago, the marriage of satellites, sensors and computers today is the picture of harmony. Thanks to rapid advances in sensor capabilities, satellite deployments and computer-based analytical techniques, a vast reservoir of remotely sensed Earth observations has been produced which assists researchers in better understanding the nature of our planet and how it is affected by human activity.

In December the Geography Dept. opened its new remote sensing research laboratory on the second floor of LeFrak Hall. The new lab is

an expansion of the interdisciplinary campus-wide Remote Sensing Systems Laboratory (RSSL) at UMCP and enables the Geography Dept. to join on-going remote sensing activities in the departments of Civil Engineering, Meteorology and Agronomy. Equipped with a Hewlett-Packard 1000 minicomputer, Ramtek image display system and associated peripherals, the new lab has the ability to handle a wide range of satellite-produced data.

The campus' RSSL is one of several such university-based labs in the nation. It is directed by Assistant Professor Samuel Goward who for the past five years has worked with researchers in the Laboratory of Terrestrial Physics at NASA's Goddard Space Flight Center. Goward has studied satellite remotely-sensed observations for more than a decade—at Columbia University and Indiana State University prior to working here.

"The strong relationship between satellites and computers has proved a boon to geographers," Goward says, "especially in understanding the earth's vegetation."

Vegetation, Goward explains, is a key element in the environment and ecology of the Earth. To understand the planet—its climate, the health and well-being of all its living organisms, and the impact made upon it by human habitation requires detailed knowledge of vegetation patterns. Remote sensing technology has helped researchers to greatly increase their store of information about global vegetation patterns—information that for the first time may make it possible to forecast the impact of major climatic changes.

Remote sensing also has been a boon to academic disciplines other

than Geography and Meteorology. In particular, researchers in Agronomy and Civil Engineering have made use of the technology to conduct both individual and cooperative projects. For example, Chris Justice, an assistant research scholar in the Geography Dept., is studying satellite observations (obtained by sensors aboard the National Oceanographic Atmospheric Administration's series of polar-orbiting satellites) of the African Sahel to determine the effects of drought on the grasslands of Kenya, Mali, Niger and parts of Ethiopia.

"Using remote sensing technology, the countries of the Sahel can closely monitor the conditions of their

grasslands," Goward says. "This is crucial since their economies are dependent upon animal grazing."

While remote sensing itself is not a new technology, there have been major advances recently in the application of sensor-produced data, particularly in the study of the Earth's water—its cycle of evaporation, precipitation and flow to the seas. Through analysis of this data at RSSL, researchers have been able to monitor various regions' vegetation patterns and calculate how these regions respond to prolonged or even periodic drought conditions. ■

—Mercy Hardie Coogan

## OUTLOOK

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## Conference on Medieval Islamic Philosophy Set

Charles Butterworth, professor in the Dept. of Government and Politics, has been awarded an \$18,000 grant from the National Endowment for the Humanities to direct a research conference on the political aspects of medieval Islamic philosophy.

Butterworth and ten other scholars of the history of Islamic philosophy will each present papers on the political aspects of the philosophical teaching of a particular Muslim philosopher at a three-day conference next fall.

Harvard University's Muhsin Mahdi, the "dean of Islamic political philosophy," has been invited to deliver the keynote address.

Butterworth believes a volume of papers resulting from this conference will find a ready publisher. "Even though a few histories of Islamic philosophy are still in print, there is

no volume that addresses itself solely to the question of Islamic political philosophy," he says.

Last November, the UMCP professor was in Gaza where he was engaged in a USAID-supported project called Continuing Education Program for Adults and Teachers on the West Bank and Gaza (CEPAT). CEPAT is a program for higher education designed primarily to help Palestinian teachers sharpen thinking skills and increase general learning.

Butterworth says the program borrows from the Great Books Program, an idea that has worked very well in Great Britain and the United States, especially at St. John's College in Annapolis. CEPAT uses some of the classical works of the Arab world as the basis of a curriculum that is designed to bring participants back to their cultural roots. ■



Regents Recommend UMCP Program Changes

The Educational Policy Committee of the Board of Regents approved several changes in UMCP programs at its Feb. 5 meeting at UMCP. The committee voted to recommend to the full board that the Bachelor of General Studies Degree Program be discontinued and that the Library of Science Education program be abolished as well. It also approved a proposal to divide the current Dept. of Art into a Dept. of Art, Dept. of

Art History, and the Art Gallery. In addition, it adopted a proposal to create a cooperative Ph.D. program in Molecular and Cellular Biology at UMCP, UMBC and UMAB. These recommendations will be considered when the next Board of Regents meeting takes place on March 17 at UMBC. Traditionally, committee recommendations to the full board are approved.

Geology Professor Explores Antarctic Glaciers



After Bob Ridkey returned home from Antarctica on Jan. 17, he says he couldn't get over how much lighter his clothes felt. "I didn't have to be layered to the hilt anymore with 40 pounds of cold-weather gear," says the UMCP associate professor of geology. While many Marylanders were escaping the cold during the winter holidays, Ridkey and UMCP graduate Eric Roberts confronted bitter cold and fierce winds for seven weeks as they studied glaciers in the Antarctic. At the request of the National Science Foundation, Ridkey examined ice streams in West Antarctica that are flowing into the Ross Ice Shelf, a thick sheet of ice covering the Ross Sea. Ridkey and seven other colleagues studied the dynamics of ice streams in this region. Overall, the continental glacier moves forward at about one meter per year, but certain sections of the glacier, the ice streams, are flowing at a rate of about 500 meters per year, Ridkey explains. The ice streams that flow into the Ross Ice Shelf currently are "grounded" against bedrock. The streams, at least for the moment, appear to be holding back most of the ice in West Antarctica. "As these ice streams become aggressive, they most likely will detach from the bedrock, and substantial amounts of the continental glacier will flow onto the shelf," Ridkey says. "When this happens, the shelf will break up, affecting world-wide sea level and climate."

Ridkey also studies the Antarctic glaciers because they are a model for the glaciers that once covered North America. For example, scientists believed that glaciers formed the Finger Lakes of New York by deepening and widening river valleys, but Ridkey theorizes that ice streams created the lakes. "I am interested in how glaciers modify the earth's surface," says Ridkey. "Scientists only can speculate about the way in which many of the world's glacial landforms developed, but in Antarctica we can observe ongoing glacial processes." Because only a few hundred scien-

tists from the United States go to Antarctica each year, it is considered somewhat of an honor to be invited by the NSF to do research there. All scientists who are planning to go also must endure a tedious series of stress tests and mental exams. "They also put us through a three-day survival course. We learned many survival techniques, such as repelling an ice cliff and building an igloo, that we actually used in the field," says Ridkey. The weather was particularly rough this research season, and that, coupled with a crash of one of the support planes, kept Ridkey and his colleagues from doing as much research as they had intended. He says he found that much of the time had to be spent just existing. They got water, for example, by chipping ice and warming it over a one-burner stove. Moving supplies from one place to another and setting up camp took most of the day. "We did find time for fun however," Ridkey says. "We did a lot of cross-country skiing, flew kites, and even celebrated Christmas, which is also my birthday. I also think I read more books in those seven weeks than I have in a decade." Ridkey hopes someday to again study the magnificent glaciers of Antarctica first hand. The research that he did there is part of a long-term NSF project so he feels certain that more UMCP faculty and students will be able to go there in the future. "Antarctica is ruggedly beautiful and dedicated totally for research," Ridkey says. "I really fell in love with the place." ■ —Jan Barkley



Caesarea Exhibition Opens in March

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city was touched by great historical currents. Pontius Pilate lived in the city while serving as Roman governor of Judea. Peter and Paul preached about Christianity there. Religious wars often engulfed the city. About 20,000 Jews were killed in Caesarea during a rebellion against Rome. Arabs besieged the city at the end of antiquity. Crusader armies took the city under the banner of Christianity. Caesarea was destroyed by the Mamluk sultan of Egypt in the late 13th century. The Caesarea exhibit will consist of 225 objects gathered from the excavation site. Replicas of buildings will give visitors a sense of life in Caesarea. In one setting, a colonaded street has been reproduced. Vann is doing the architectural work for the reproductions, and Spiro is doing replicas of the mosaic streets. Paralleling the story of Caesarea will be information describing how archaeologists work. The dig at Caesarea involved work both on land and underwater, giving visitors a chance to learn about the techniques in both types of archaeology. Among the special features will be computer terminals programmed to offer information on digs throughout the world. Computer programs for the exhibit were developed by UMCP associate dean of architecture Stephen Sachs, a scholar who has played an active role in the project, and Ben Shniederman, associate professor of computer science. Scholarly attention turned to Caesarea in the early 1970s when two major expeditions, the Joint Expedition to Caesarea Maritima and the An-

cient Harbour Excavation Project, were started at the site. Robert Bull of Drew University is the leader of the Joint Expedition, and Avner Raban of Haifa University is Israel is the leader of the harbor excavation. Holum, Vann and Spiro joined the effort in the 1977. In addition to scholars from the United States, Canada and Israel, hundreds of volunteers including students and amateur archaeologists have dug at Caesarea. Plans for an exhibition received a crucial boost in 1986 when the National Endowment for the Humanities awarded the UM Center for Archaeology a \$300,000 grant for the exhibition. The exhibition will run for March 23-June 19 before going on the road. The exhibition book is co-authored by Holum, Bull, Raban and Robert Hohlfelder of the University of Colorado. Two different versions of the book will be available. Both describe the history of Caesarea and the archaeological techniques used to uncover the lost city and include 178 illustrations; One version also features an exhibit catalog. The seminar begins at UMCP Friday, March 25. The first session will feature a discussion of the exhibit aimed at a general audience. Another session will be held Sunday, March 27, in the Baird Auditorium of the Smithsonian Institution's National Museum of Natural History and Monday, March 28, at the Jewish Community Center in Rockville. The seminar is supported by the Maryland Humanities Council and the UMCP Graduate School. For more information call 454-3427. ■

Psychology Dept. Receives High Marks

One of the traditional ways to determine a university's overall ranking, as well as that of each of its academic departments, is to measure how well it fares when its research productivity is compared with peer institutions. In a recent study by three University of Notre Dame psychologists, UMCP's Psychology Department ranked fifteenth among the top 75 institutions whose members were leading contributors of research articles in the thirteen journals published by the American Psychological Association. The study, which appears in the November, 1987, issue of *American Psychologist*, not only gives a current ranking of various psychology departments but it also shows their rankings of ten years ago. In that respect,

UMCP's Dept. of Psychology nearly doubled its 1977 standing. An institution's productivity was estimated on the basis of frequency and order of authorship. A single-authored article was awarded a single unit of credit, whereas multi-authored articles received degrees of credit based on a formula. "We're not surprised that we're in the top fifteen," says Irv Goldstein, chair of the Psychology Dept. "This is consistent with other indicators, including the fact that we have doubled our grant and contracts over the past decade so that we now bring in over \$1 million a year. Our faculty is excited about the future and we're looking forward to continued excellence in our scholarship activities." ■





## Minority Student Job Fair Set

UMCP minority students are invited to participate in the Minority Student Job Fair, Feb. 17, 9 a.m.-4 p.m., Grand Ballroom, Stamp Student Union. Co-sponsored by the Office of Minority Student Education (OMSE) and the Career Development Center, the job fair will have representatives from 70 companies available to interview prospective

employees and/or talk and distribute information about various employment opportunities. To attend the fair, students must first register with OMSE in Room 1101 Hornbake Library. Registration is taking place now.

# Calendar

February 15-February 22

15 MON

**Korean Studies Lecture:** "Comparative Study of Korean and Taiwanese Economic Development," Soon Cho, Seoul National University, 5 p.m., 2166 Lefrak, call x2241 for info.

**Art Exhibit:** "Skowhegan: A Ten Year Retrospective," Mon.-Fri. 10 a.m.-4 p.m.; Wed. 10 a.m.-9 p.m.; Sat.-Sun. 1-5 p.m., Art Gallery, Art/Soc. Bldg., call x2763 for info.

**Black History Month Exhibits:** "In Remembrance of James Baldwin," McKeldin and Hornbake Libraries, call x2853 for info.

"Showcase of Prestigious Men of Phi Beta Sigma," Stamp Union. "Black History Month Showcase," James Curriculum Lab, College of Education, call x5467 for info.

**Parents Association Gallery Exhibit:** "Phumalanga: Tapestries from Swaziland," Mon.-Fri. 10 a.m.-8 p.m., Sat.-Sun. 11 a.m.-5 p.m., call x4753 for info.

16 TUE



**Personal Observations:** "What is Happening in the Soviet Union?" Lev Gandin, 3:30 p.m., 2114 Computer and Space Bldg. (Meteorology Classroom), call x2708 for info.

**Black History Month Workshop:** Job interviewing and Resume Preparation, 4 p.m., Stamp Union; sponsored by Phi Beta Sigma and the Career Development Center; call x3593 or 490-8274 for info.

**Black History Month Poetry Reading:** "Where are the Love Poems for Dictators?" poet Ethelbert Miller, 4 p.m., Nyumburu Cultural Center (3123 S. Campus Dining Hall), call x5774 for info.

**Black History Month Intercultural Workshop:** "Baba Bafa," 6 p.m., North Hill Community Center, sponsored by Resident Life; call x4276 for info.



Blues saxophonist Stanley Turrentine, Feb. 15

17 WED

**Ash Wednesday Services:** Episcopal—7:30 a.m., West Chapel; Ecumenical—12 noon, Main Chapel; Roman Catholic—7 p.m., Atrium, Stamp Union

**Employee Development Training Program:** F.A.S., 9 a.m., Multi Media Room, Hornbake; today is also the deadline for the next training session (Procurement and Supply) on Feb. 24; call x4811 for info.

**Astronomy Colloquia:** "White Dwarfs in Cataclysmic Variables," 4 p.m., 1113 Computer and Space Science, call x6453 for info.

**Cognitive Studies Lecture:** "Pessimism as a Predictor of Depression, Poor Achievement and Ill Health," Martin Seligman, U. of Pennsylvania, 4 p.m., 1410 Physics, call x7002 for info.

**Black History Month Forum:** Minority Student Leaders, 7 p.m., 1221 Lefrak; sponsored by the Center for Minorities in Behavioral and Social Sciences, call x4225 for info.

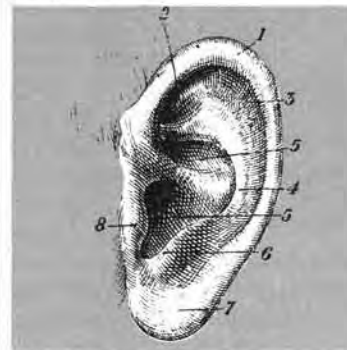
**Architecture Lecture:** "Pilgrimage: Meaning, Structure and Architectonics," Eleanor Munro, author of *On Glory Roads*, 7:30 p.m., Architecture Auditorium, call x3427 for info.

**Campus Club Meeting:** Theatre Talk: "Behind the Scenes," William Patterson and Mary Martone, 8 p.m., Rossborough Inn; (to be followed by a Theatre Party on Feb. 18 to attend *Children of a*

*Lesser God*; call 654-1550 or 864-8856 for info.

**Hoff Theater Sneak Preview:** *The Wrong Guys*, free passes available at the Ticket Center, Stamp Union, call x4987 for info.

**Prince George's County Alumni Club Oysterfest,** deadline for reservations; Raw Bar, Buffet and Dancing on Feb. 27; tickets \$18 each; call 277-1443 or 474-7667 (eve.) for info.



**Counseling Center R & D Meeting:** "Transitions from Deafness to Hearing with the Cochlear Implant," Cindy Campbell, 12 noon, Testing Room, Shoemaker, call x2931 for info.

18 THU

**Lunch 'n Learn Conference:** "Undoing Undue Influence: Seven Years of Counseling Cultists and their Families," Hillel Zeitlin, Jewish Community Center, Baltimore, 1 p.m., 3100E Health Center, call x4925 for info.

**Meteorology Seminar:** "Measuring clouds from space," W. B. Rossow, NASA/GISS, 3:30 p.m., seminar room, Bldg. 337, call x2708 for info.

**Nutritional Sciences and Poultry Science Colloquium:** "Recent advances in our understanding of copper homeostasis," R.M. Leach Jr., 3:30 p.m., 0200 Symons, call x7838 for info.

**Cultural Backgrounds of Dance Lecture:** "Repeatability, Reconstruction and Beyond," Mark Franko, Princeton U. and Novantiqua Dance Company; lecture with slides and videotape; 7 p.m., Dance Studio Theatre EE, call x4056 for info.

**University Theatre Production:** *Children of a Lesser God*, 8 p.m., Tawes; tickets \$7, (\$5.50 senior/student); also on Feb. 19-20 at 8 p.m.; call x2201 for info.

19 FRI

**Published Women Luncheon:** Graciela P. Nemes discussing her research on the poet Zenobia, wife of Nobelist Juan Ramon Jimenez, 12 noon, Rossborough Inn; tickets \$8, call for reservations x3940.

**Geography Seminar:** "Issues in Farmland Preservation," Beth Agayoff, 12 noon, 1179 Lefrak, call x2241 for info.

**Dance Event:** Robert Small, Solo Concert, 8 p.m. Dance Studio Theatre EE; also on Feb. 20; tickets \$8 (\$5 senior/student), call x4056 for info.

20 SAT

**Black History Month Museum Trip:** visit to the Smithsonian Institution's Museum of African Art, sponsored by Resident Life, call x6319 for info.

**AAUW Prince George's County Interbranch Council Meeting:** "Protecting Personal Liberties," Judge Bess Levine, Maryland District Court, and Judge Lucy B. Warr, Prince George's Orphans Court, 12 noon, Gazebo Room, S. Campus Dining Hall; tickets \$10, call 474-9479 for reservations.

**Astronomy Observatory Open House:** lecture and weather permitting, telescope observing; 8 p.m., Astronomy Observatory, Metzerott Road; call x3001 for info.



**University Community Concert:** New York Trumpet Ensemble, with William Neil, organ, 8 p.m., Center of Adult Education; tickets \$14 (\$11.50 senior/student), music of J.S. Bach, Vivaldi, Handel, Purcell, call x6534 for info.

21 SUN

**Black History Month Music,** University of Maryland Gospel Choir members singing at Episcopal Sunday Eucharist, 10 a.m., West Chapel, call x2347 for info.

**Wanderlust Travelogue:** Alaska, 3 p.m., Hoff Theater; tickets \$4, \$3, \$2; call x4987 for info.



Dance soloist Robert Small, Feb. 19 and 20.

**Great American Songwriters Concert:** Chris Connor Sings Richard Rodgers, 4 p.m., Center of Adult Education; tickets \$14 (\$11.50 senior/student), call x6534 for info.

22 MON

**International Program Seminar:** "Opportunities for International Collaboration between OICD and U.S. Universities," Joan Wallace, USDA, 12 noon, 0115 Symons, call x6407 for info.

**Korean Studies Lecture:** "South Korean Politics: Post-Election Observations," John Oh, Vice President, Catholic University, 12 noon, 1400 Marie Mount, call x2241 for info.

**Black History Month Panel:** "Kerner Plus Twenty: A look at what the Kerner Report said about Minorities in the Media," discussed by electronic and print media professionals, 3 p.m., Nyumburu Cultural Center, 3123 S. Campus Dining Hall; co-sponsored by College of Journalism and Sigma Delta Chi, call x3125 for info.

**Computer Science Seminar:** "PASM: A Reconfigurable Parallel Processing System," H.J. Siegel, 4 p.m., Classroom CLB, call x4244 for info.

**Entomology Seminar:** "Bacillus thuringiensis: a different view of a microbial control agent," Phyllis A.W. Martin, USDA, 4 p.m., 0200 Symons, call x3843 for info.

**History and Philosophy of Science Seminar:** "The Scientific Method: What it is and what it is not," Andrew Lugg, U. of Ottawa, 4:15 p.m., 1117 F.S. Key, call x2850 for info.

**Space Science Seminar:** Edgar A. Bering, U. of Houston, 4:30, 1113 Computer and Space Sciences, call x7309 or x3966 for info.

\*Admission is charged for this special event. All others are free.

## COMING ATTRACTIONS

### Ensemble presents "Art of the Trumpet 1600-1725"

Baroque music fans are in for a real treat at the next University Community Concert, when the New York Trumpet Ensemble, Edward Carroll, director, and National Symphony Orchestra organist William Neil get together to present an evening of Telemann, Scheidt, J.S. Bach, Albinoni, Frescobaldi, Vivaldi, Purcell, Handel and Jeremiah Clarke. The concert is on Feb. 20 at 8 p.m. in the Center of Adult Education. Tickets are \$14 (\$10 senior/student). A reception and exhibition of antique brass instruments will follow. Call x6534 for information.

### Chris Connor Sings Richard Rodgers

Leading off the University Community Concerts' second season of Great American Songwriters programs will be Chris Connor singing the music of Richard Rogers on Sunday afternoon, Feb. 21 at 4 p.m., in the Center of Adult Education. Known for her rich tones, coolly swinging style and interest in probing a lyric's meaning, Miss Connor toured with Stan Kenton and has appeared in concerts and at leading jazz clubs and festivals around the world. Tickets are \$14 (\$11.50 senior/student); call x6534 for information.



## Baroque Dance Expert to Speak at UMCP

Mark Franko, a Princeton University expert in baroque dance, will present a lecture on Feb. 18 at 7 p.m. in Dance Studio Theatre EE. Franko specializes in reconstructing historical dance and comparing past styles with modern work. For instance, he sees a relationship between baroque theory of dance and modern performance art. The lecture is sponsored by the Dept. of Dance in collaboration with the Center for Renaissance and Baroque Studies and the College of Arts and Humanities.

## ARTS AT MARYLAND

# From Ancient Greece to Africa to UMCP: Play Blends Many Cultures

**T**heatrical traditions spanning different centuries and cultures meet this month when an ancient Greek play set in Africa is performed at College Park.

University Theatre will present "The Bacchae of Euripides," Nigerian playwright Wole Soyinka's adaptation of an Euripides tragedy, Feb. 23-March 6 in the Rudolph E. Pugliese Theatre. All performances begin at 8 p.m. except the Feb. 28 and March 6 performances which begin at 2 p.m.

The play originally emerged from Soyinka's belief that Greek culture and west Africa's Yoruba culture are linked, Harry Elam, the play's director, says. The story centers on a conflict between the god, Dionysus, and Pentheus, the repressive king of Thebes. In the course of the play, Dionysus dupes Pentheus into a position in which the king is killed by followers of the god.

Soyinka, a Nobel Prize-winning writer, and Euripides interpret the events differently, Elam, assistant pro-



fessor of communication arts and theatre says. Euripides saw Dionysus as simply a vengeful figure, while in Soyinka's version the god is a

redeemer for the people oppressed under Pentheus' rule.

"A college theater needs to concentrate on the process of preparing a

play as well as the product that results from it," says Elam. "This play has been a challenge to us. It's a different type of play for our students."

Preparing the play has led the 20 students involved with the production to explore Yoruba culture—especially religious and ritualistic activities. It has even been a learning experience for Elam, an expert in revolutionary theater, who is also basically a newcomer to African theater. Work on the production began in September in order to give the cast and staff time to deal with the unfamiliar aspects of the play.

Rehearsals have often included long discussions exploring the characters' feelings of spirituality and oppression, Elam says. To help create an African atmosphere on the stage, Elam has incorporated elements of African dance into the production.

Two students have helped research cultural aspects of the play. Thandi Hicks, an RTVF major who has studied African dance, did the choreography. Tyin Fadope, a native of Nigeria, is Elam's graduate assistant for the show and has done much of the background research into the Yoruba culture.

To give the audience deeper insights into the play's cultural aspects, guest speakers will participate in discussions following two performances. Ekpo Eyo, UMCP art history professor, and Georgetown theologian Joseph Murphy will speak after the Feb. 25 performance. Jorgen Major, UMCP classics professor will speak after the March 2 show. The discussions will be held in the theater.

For ticket information call 454-2201. ■

## Free Film Series Features Work of Japanese Director

The work of Ozu, one of the major directors of the Japanese cinema, will be featured in a film festival beginning Wed., Feb. 24, at UMCP.

The festival, which runs until mid-April, will feature seven films in Japanese with English subtitles.

Ozu, a popular post-World War II filmmaker, is noted for his views of contemporary Japanese family life.

"For many years his work wasn't seen in the West because it was so distinctly Japanese that it was felt he wouldn't be liked here," says Eleanor Kerkham, associate professor of East Asian Languages and Literatures and co-coordinator of the festival. "Then some important French directors discovered his work and were influenced by him."

"His films began to be released here in the 1970s, and people have been enthusiastic about them. There is a very stylized sense of the Japanese language, but the films also deal with themes of ordinary life," she says.

All films will be shown free of charge at 7:30 p.m. in Room 2203 of the Art/Sociology Building. The series includes:

- \* *Record of a Tenement Gentleman*, Feb. 24. In addition, Michael Jeck, a distributor of Japanese films in America, will present a lecture on "Low Angle Shots and No Plots: the Ozu Mystery."

- \* *Late Spring*, March 2.

- \* *Flavor of Green Tea Over Rice*, March 9. In addition, Kyoko Hirano, Japan Film Coordinator of the Japan Society, will present a lecture on "Japanese Views of Ozu: From War to Peace."

- \* *Tokyo Story*, March 23.

- \* *Early Spring*, March 30.

- \* *Ohayo*, April 6. In addition, David Desser, professor at the University of Illinois, will present a lecture on "Ozu: Daily Life as a Style and Theme."

- \* *End of the Summer*, April 13.

The series is sponsored by the UMCP Committee on East Asian Studies, the Research Center for the Arts and Humanities and the Japan Information and Culture Center. For more information call 939-6900. ■

—Brian Busek

## Beethoven Cycle Will Continue During Second Half of UCC Season

The Cleveland Quartet's completion of a cycle of all the Beethoven string quartets is among the highlights of the University Community Concerts' schedule for this winter and spring.

The Cleveland Quartet, acknowledged as one of the leading professional string quartets, has been performing the Beethoven cycle in a series of five UCC concerts that began in October. The cycle will be completed in performances May 3, 5 and 7 beginning at 8 p.m. in the Center of Adult Education Auditorium.

Upcoming performances on the UCC schedule include a concert to be presented by The New York Trumpet Ensemble with organist William Neil, 8 p.m. Sat., Feb. 20, in the Center of Adult Education Auditorium. This group is the modern counterpart to the courtly trumpet guilds that brought musical splendor to public occasions from the 14th to 18th centuries.

The Boston Camerata under the direction of Joel Cohen will present a concert at 3 p.m. Sun., March 6, in the Center of Adult Education Auditorium. The group will present "The Sacred Bridge," a program that explores the musical relationship between the Jews and their Christian countrymen during Medieval and Renaissance times.

Other UCC concerts to be held this winter and spring at Center of Adult Education Auditorium include:

- \* The American Chamber Players, 8 p.m. Sun., March 27.

- \* The Golub-Kaplan-Carr Trio featuring soloists pianist David Golub, violinist Mark Kaplan and cellist Colin Carr, 8 p.m. Sat., April 16.

- \* The Ridge Quartet with pianist Rudolph Firkusny, 3 p.m., Sun. April 24.

For ticket information call 454-6534.



New York Trumpet Ensemble



## Journalism to Sponsor Panel on Minorities in the Media

On Feb. 22 at 3 p.m. the College of Journalism and the Society of Professional Journalists (Sigma Delta Chi) are co-sponsoring a panel discussion entitled, "Kerner Plus Twenty: An Update on the Status of Minorities and the Media Today." The panel, which will convene in the Nyumburu Cultural Center on the second floor of South Campus Dining Hall, will feature: Alicia Benjamin, statehouse reporter for the *Afro-American* papers; Rudolph A. Pyatt Jr., business columnist for the *Washington Post*; Reginald Stuart, national affairs cor-

respondent for the *Philadelphia Daily News*, and John Herbers, former Washington correspondent for the *New York Times* (Herbers now is a distinguished *Baltimore Sun* visiting professor at the College of Journalism). Moderator Linda Jones, president of the campus chapter of the Society of Professional Journalists, will facilitate the panelists' review of the Kerner Commission Report and the extent to which minorities are involved in the media today. A reception will follow. For more information, call 454-2228.

## CLOSE UP

# Trend Toward Employee Testing May Alter Workplace Expectations



Judy Olian

**T**oday about half of all *Fortune* 1000 companies require that job applicants—among them new college and university graduates—be tested for drug use.

Three years ago only one out of ten of these firms employed such mandatory screening. By the end of the decade however, says Judy Olian, associate professor of management and organization in the College of Business and Management, more than half could require drug testing of

their prospective workers if this trend continues.

This pre-employment screening to detect drug or alcohol abuse, the use of paper and pencil tests, polygraph and voice stress analysis to determine a "predisposition to dishonesty" and the more recent use of biological tests for the AIDS virus or genetic syndromes holds considerable potential for the invasion of personal privacy, and the possibility of damage to individual rights, Olian believes. The UMCP professor's interest in this area

started several years ago when she began looking into the genetic testing of workers. Currently she is working on a book on the subject.

"As we learn more and more about the interactions between genetic markers and job-related conditions or chemical agents, genetic testing could be used by management with increasing frequency," she notes. "Such pre-employment screening can result in the determination that a particular workplace may be unhealthy and even dangerous to a prospective employee."

Genetic markers, for example, could indicate a worker's predisposition to heart disease in which case avoidance of potentially stressful working conditions might be suggested. Other markers could indicate adverse reactions to oxidizing agents such as benzene which could lead to anemia or lung disease.

"The whole question of pre-screening and employee testing has become a strikingly complex management issue," Olian says. "It raises biological, medical, legal, ethical and straight managerial concerns that together embrace a classic Catch-22 dilemma—what is the best way to deal with drugs, alcohol, AIDS or biological issues while at the same time maintaining high morale and productivity in a safe workplace?"

It is estimated that drug and alcohol abuse cost the economy between \$100 and \$150 billion annually because of decline in worker productivity, increased absenteeism and more expensive medical treatment and rehabilitation programs.

Inevitably, because of the increasing incidence of AIDS cases, more and more employers will have direct experiences with employees who fall victim to AIDS. The average cost of caring for an AIDS patient from onset

of the disease to death is now \$150,000 and, says Olian, is likely to increase as new and more expensive treatments are developed.

Employers, whether large or small, need to establish and set in place policies that spell out the conditions of testing, when and where and under what circumstances testing can be carried out and the consequences of testing, the UMCP professor says. What, for example, constitutes definitive evidence of a "positive" drug test result? Are there different policies used for those individuals applying for work and current employees? Are programs of rehabilitation and counseling offered as alternatives to being fired?

Except for jobs in the area of national security and in criminal investigative work, use of the polygraph by employers will probably be banned by Congress. Bills are now pending in the House and Senate. Although so-called "integrity testing" will rely less and less on polygraph and voice stress analysis, Olian says that "paper tests" will continue to be used for this purpose.

Olian believes that unless stringent and fair policies are imposed, the increased use of blood and urine sample testing opens the door to possible misuse or abuse by employers and holds the potential for greater intrusion into people's private lives.

Such bio-medical tests of body fluids can reveal far more about an individual than whether he or she uses drugs or carries the AIDS virus. Some nationalities, for instance, are predisposed to having the genetic marker "G-6-P-D"; sickle-cell anemia, an inherited chronic anemia, is found chiefly among blacks; blood samples can be tested for the presence of venereal disease.

Thus the potential for ethnic or racial discrimination exists.

"There is also the potential for error, inaccuracy, a breakdown in the chain of custody of the sample, or the substitution of samples, in such testing," Olian says.

The UMCP professor foresees the potential of both a legal and legislative backlash against testing. She also says employers may discover that the cost of testing, both economic and in terms of declining worker morale, and a deteriorating relationship and loss of trust between employer and employee, may become excessive.

Drug testing can cost from \$75 to \$100 per employee.

"Employers may begin to reevaluate the merits of indiscriminate testing. While understandably, employers cannot tolerate workers who abuse drugs or alcohol, they may find that employee drug awareness programs and counseling services may prove to be a better and cheaper alternative to testing and pre-screening programs," Olian says. ■

—Tom Ottwell

## Fortune 1000 Companies Polled on Biotesting

UMCP researchers have taken the first comprehensive look at corporate practices, policies and experiences in the area of physiological testing — drug, alcohol and dishonesty testing, screening for genetic syndromes and for the AIDS antibody.

Last fall a questionnaire developed by Judy Olian and James P. Guthrie, an assistant instructor in the College of Business and Management and a doctoral student in human resources, was sent to all of the nation's *Fortune* 1000 companies — a composite of *Fortune Magazine's* Industrial 500 and Service 500 firms.

It was mailed to the companies' directors or vice presidents for human resources.

The results of the survey, based on the return of 378 completed questionnaires, or a response rate of almost 40 percent, confirm what Olian says is a trend toward greater testing in some areas for diverse groups of employees and applicants. For example, the survey indicates that nearly half (49 percent) of the *Fortune* 1000 corporations who responded now require job applicants or employees to be checked for the presence of drugs.

The survey also found that among those companies who responded almost a quarter (24 percent) test for alcohol presence. Eleven percent report using polygraphs or voice stress analysis to test for dishonesty.

Only one company responding to

the questionnaire tests for the AIDS antibody and six offer AIDS screening on a voluntary basis.

None of the companies reported conducting routine genetic screening.

Of those companies that now conduct biotesting of one type or another, 93 percent report having written alcohol and drug test policies, and 58 percent have written dishonesty test policies, according to the survey responses. Among those companies that test for drug presence, 69 percent say they reject job applicants with a single confirmed positive test result and almost half of the firms that test for alcohol turn down applicants with a single confirmed positive test result. ■



## ICONS to Hold Workshop

ICONS (International Communication and Negotiation Simulations), a world-wide, multi-institutional, computer-assisted simulation that thrusts students into the world of high-powered international negotiations, will hold a two-day workshop for prospective participants in the project Feb. 14-16. Pioneered at UMCP as a tool to help students gain a better grasp of the complexity of international issues, ICONS

now involves 1,500 students a year at more than 20 colleges, universities and selected secondary schools in the U.S. as well as universities in Argentina, Canada, Chile, France, Japan, Israel and the United Kingdom. ICONS is a project of the National Council on Foreign Language and International Studies and is directed by Jonathan Wilkenfeld (Government and Politics) and Richard D. Brecht (Germanic and Slavic Languages and Literature).

## COLLEGE PARK PEOPLE

### IN THE SPOTLIGHT:

## Donald E. Williams UMPC Libraries' Utility Infielder



AL DANEGGER

In baseball, the utility infielder is that gifted athlete who is equally adept at playing third base, shortstop or second base and who can be counted on to get hits when he's in the batter's box as well.

If the UMCP Libraries ever had a utility infielder, it is probably Don Williams. Williams has been with the libraries since 1974 following a 15-year career with Arbitron, the broadcast ratings research organization.

In his 14 years with UMCP, Williams has been: supervisor of programmers, systems analyst, acting facilities manager, senior research analyst, acting budget officer, acting head of the circulation department, and acting personnel librarian. He is actively involved with the McKeldin Library expansion and renovation project and in writing, editing and updating the Libraries' Five Year Plan, an annual report to the University's Board of Regents.

During the summer months, when other members of the administrative staff are on vacation, he is often appointed to be in charge of the libraries. And if all this was not enough, Williams has also been "temporary editor" of the monthly newsletter *Library Record* for the last three years.

With an annual budget of more than \$10 million and a staff of some 238 fulltime employees and as many as 600 student workers at seven campus locations, the libraries is one UMCP's largest departments.

Williams' job title seems to capture what it is he does best—manager for special projects for this enormous operation.

"Over the years I kept getting the jobs that other people didn't have the time to do or filling posts that the libraries didn't have the staff for," he says. "Dr (Joanne) Harrar (Director of UMCP Libraries) feels free to call on me to do just about anything at any time," he adds.

Williams graduated from UMCP in 1959 with a degree in psychology and a minor in science. He is the first to admit that he didn't know much about librarianship when he returned to the campus as an employee 15 years later.

But, he notes: "There have always got to be people who are able to

float with the need or fall into the need in any organization," he says of his own role with the UMCP Libraries. "You tell me what you want done and I'll produce it for you. I've been involved with the nitty-gritty on a day-to-day basis. It is the kind of work I enjoy."

A native of Naugatuck, Connecticut (home of Naugahyde, the imitation leather used for upholstery—"As a kid, we used to joke about hunting Naugas down by the banks of the Naugatuck River") and a Navy weatherman during the Korean War, Williams has lived in Wheaton since 1969. He and his wife are active with the Montgomery Players, a local little theatre group, and both have become what he calls "Anglophiles." The Williams have visited England three times in the past and next year plan to spend time touring Great Britain aboard a canal boat.

Williams is also an amateur artist interested in etching and airbrush painting. He is just 18 credits short of getting a UMCP degree in art. Although he has had one work entered in a juried show in Montgomery County, he modestly refers to his efforts as "just fooling around." ■

—Tom Otwell

## BEHIND THE SCENES: Keeping the Campus Fleet Neat and on its Feet

Each year some 5,000 drivers log 4 million miles traveling on official University business. About half of those travel miles are made behind the wheels of the 115 passenger vehicles that are owned and maintained by the campus Motor Transportation Facility.

Victor Chiariello, the facility's director for the last two years, notes that the motor pool dispatches over 100 vehicles every day. And, although the number of requests for sedans, vans and station wagons is large, the size of the staff that responds to those requests is not.

For 20 years, the number of Motor Transportation Facility employees has remained steady at 12.

"Our job is to make the vehicles ready for use," Chiariello says. This means that every day they've got to be scheduled, washed, their interiors cleaned out, their fluid levels checked, gas tanks filled, mileage recorded, and any mechanical problems fixed. Campus-owned cars are driven hard—an average 22,000 miles per year.

The facility is a self-supporting operation. To carry out its mission, it operates what are in effect four businesses or services for its clients—

car rentals, gas station, garage, and fleet management.

The gas station pumps nearly a quarter million gallons each year. Henry Reid, who opens the pumps at 6:30 every morning, and Terry Watkins operate the full-service gas pump and routinely check under the hoods of each vehicle scheduled for use each day.

Robert "Pop" Campbell, a Hollywood, Md. resident, has worked keeping the fleet clean and ready to roll for nine years. "Somedays, I'll wash the same car three times a day," he says.

Maintenance chief Tommy Cockrell has worked in motor transportation for the last 14 years and for the last eight has supervised auto service mechanics Charles Lewis, James Jarrell, and Sal Thapar, who work in the facility's eight-bay garage. They provide maintenance and repair to some 450 campus-owned vehicles including among others police cruisers and Dining Service trucks. All campus vehicles undergo annual tests on a sophisticated computerized emission testing machine that also diagnoses engine problems. And twice each year, the fleet is given a safety inspection.



AL DANEGGER

(Left to right: Cindy Emerson, Laura Mate, Sandy Stark, Nancy King, and Vic Chiariello)

Motor Transportation also provides Fleet Management services for all UM campuses. This may include purchase and sale of vehicles along with title, tag and insurance work for more than 1,000 UM-owned vehicles.

Cindy Emerson is supervisor of the motor pool and is also the business manager.

At daybreak every morning she sets up the vehicle schedules for each of the cars that have been reserved for campus users.

Nancy King processes billing, schedules emissions and maintains parts inventories. Sandy Stark compiles fleet expense and mileage data for monthly reporting to the State.

Laura Mate has worked at the facility for 19 years. She is both the office manager and its best-known employee. "And everybody takes turns working the reservation desk," Chiariello says. ■

—Tom Otwell



## College Seeks Nominees for Teaching Excellence Award

The College of Computer, Mathematical and Physical Sciences is accepting nominations through Feb. 28 for the Dean's Award for Excellence in Teaching. Nominees may be a faculty member or a teaching assistant. The nomination should be based on the teacher's knowledge of course material, clear

and interesting class presentation, communication of enthusiasm to students, and enjoyment of interaction with students. Both faculty and students may make nominations and can obtain nomination forms from the dean's office or from the college's departmental offices.

### FYI

#### Campus Club Plans Double Feature This Month

On Feb. 17 at 8 p.m. in the Rossborough Inn, William Patterson (Dept. of Communication Arts and Theatre) and Mary Martone (Model Secondary School for the Deaf), director and assistant director respectively for the play, *Children of a Lesser God*, will present Campus Club members with some special behind-the-scenes insights on casting and directing both hearing and hearing-impaired actors for the current University Theatre production. The following evening, club members will attend a performance of the play which will be followed by an on-stage party. For ticket information, call Jean O'Connell at 654-1550 or 864-8856.

#### Bender Selects Perfect Rose for Smithsonian Exhibit

Filmore Bender, associate director of the Maryland Agricultural Experiment Station and adjunct curator of life sciences at the Smithsonian, chose rose #5108 as the rose for the National Museum of American History's "The Search for Life Exhibit." Rose #5108 is a crossbreed between the Miss All-American Beauty and the Mr. Lincoln roses and was chosen for the exhibit which depicts genetic technology in the 20th century. Bender's search for "that one special rose" ended at the Montebello Nursery in California, the birthplace of Rose #5108. Fifty-one-o-eight is

listed in the International Registry Authority for Roses and is awaiting official approval as "The Search for Life" rose from the American Rose Society.

#### Cordaro and Nola To Monitor Runoff and Silt Control

Harry Kriemelmeyer, assistant vice chancellor for facilities management, has assigned Stephen Cordaro (Engineering and Architectural Services) and Dennis Nola (Physical Plant) the responsibility of monitoring the control and/or containment of runoff from any exposed-earth construction on campus. The two have the authority to interrupt construction jobs when factors indicate that containment is inadequate. "We have in most instances obtained very good cooperation from contractors in following their designed sediment control plans," Kriemelmeyer says. "On occasion, however, we have had problems and intervention has been necessary."

#### Herschbach Appointed Editor

Dennis Herschbach (EDIT) has been appointed associate editor of the *Journal of Industrial Teacher Education*. Following his two-year appointment, he will serve as editor.

#### Mental Health Services Available to Students

The Mental Health Service of the University Health Center offers a range of psychiatric help for students. These services include crisis intervention, individual and group psychotherapy, medication evaluations and treatments, couples and family therapy, and stress reduction instruction. Appointments can be made by calling 454-4925 or by coming to Rm. 3100 in the Health Center.

#### Barbe to Address Electron Device Society

David Barbe (Electrical Engineering) is one of two scholars chosen by the Electron Device Society of the Institute for Electrical and Electronic Engineers to lecture on campuses around the country. Barbe, the executive director of UMCP's Engineering Research Center, will lecture on "Solid State Imaging", an area of technology which he pioneered during the 1970s.



The campus' dozen or so horses, housed in the barns, are cared for and ridden by the University Equestrian Association. The horses are also used in the horse management teaching program, according to livestock manager Jordan Thomas.

### FOCUS

## New Center for Minorities in the Behavioral and Social Sciences



Last fall the College of Behavioral and Social Sciences established a special center for its minority students. Directed by Miriam Langa, the Center for Minorities in the Behavioral and Social Sciences forms the core of the college's minority student retention effort. Its mission is to provide academic and other support services necessary to minority students to help them get the most from their college experience.

"We try to help them with whatever they need to stay on top of their coursework," says Langa. "In addition, we're anxious to help them in other aspects of their lives as students."

Those Black, Hispanic, Asian and Native Americans majoring in Afro-American Studies, Anthropology, Criminal Justice, Criminology, Economics, Geography, Government and Politics, Hearing and Speech Sciences, Psychology, Sociology, or Urban Studies can obtain help from the center in variety of ways.

Academic advising, course scheduling and career planning assistance, academic skill development workshops, tutorial referrals and personal academic goal setting are all available through the center.

"All of our activities are based on the assumption that most of our students have both the potential and the desire to succeed at UMCP," Langa says. "What we try to provide is that extra support that enables them to feel that they really belong here. Often minority students have difficulty in school because, for a variety of reasons, they feel they are not an integral part of the student body."

For additional information about the Center for Minorities in the Behavioral and Social Sciences, call Langa at 454-4225. ■